

1430-26 INSULUX

NQV 27 1943

One of the most costly maintenance problems occurring in industry is the cleaning of large areas of sash. Added to this expense are the costs resulting from sash corrosion, calking and painting. In factories using Insulux glass block, however, maintenance is reduced to a minimum. There are no moving parts, nothing to paint. Cleaning is easy and infrequently required. Also, the equipment itself within the building is made more free of dust and dirt because Insulux Glass Block panels are air-tight and eliminate infiltration.

Over a period of time the installation of Insulux glass block panels will be found to be much more economical than any other light transmitting material. This is true not only from a maintenance standpoint, but also because the block help solve heating, humidity, and lighting problems.

SUBJECT

MAINTENANCE

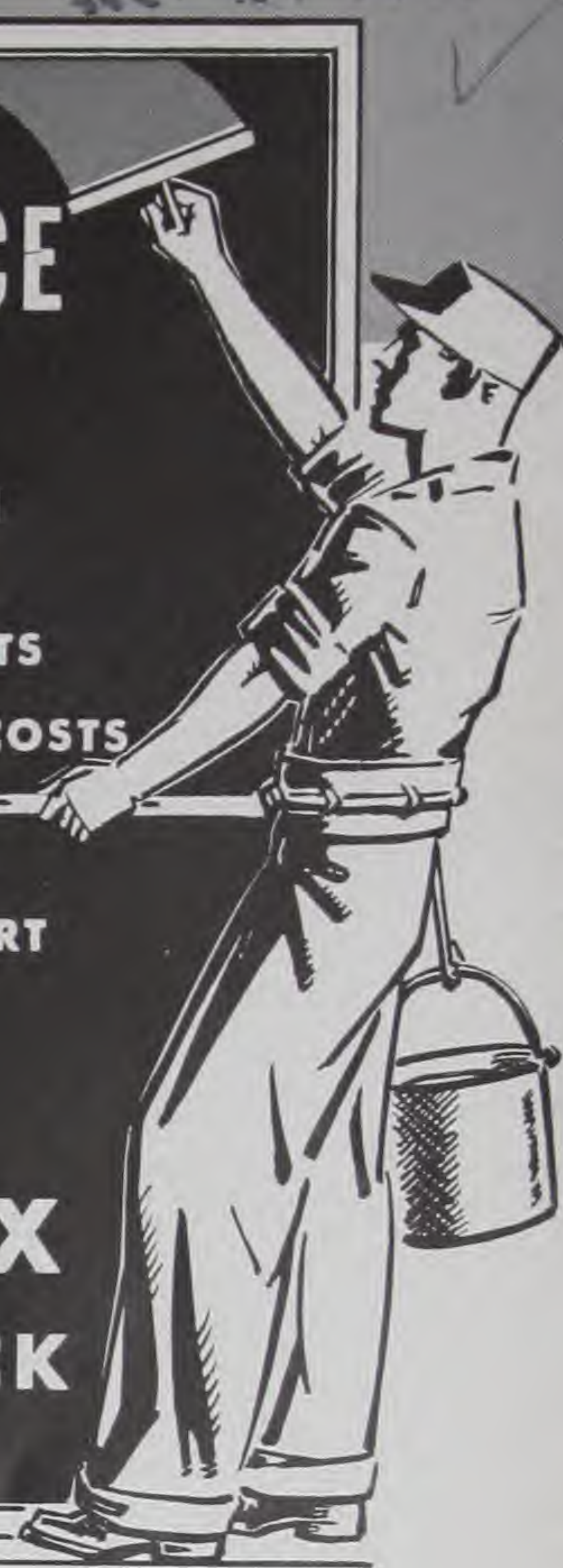
PROBLEM

- 1 SASH CORROSION
- 2 HIGH WINDOW CLEANING COSTS
- 3 HIGH PAINTING COSTS

- 4 INFILTRATION OF DUST AND DIRT

ANSWER

INSULUX GLASS BLOCK



INSULUX GLASS BLOCK ELIMINATES COSTLY SASH CORROSION

Problem

1



Many industrial plants have either natural or induced humidity, or processes that liberate gases which may attack materials not properly painted or protected. Industrial processes also re-

quire the use of chemicals, which create destructive vapors. Here Insulux is often the solution because it reduces condensation and being glass, is relatively free from attack.

SUBJECT

MAINTENANCE

Problem 2

HIGH COST OF WINDOW CLEANING . . .

The constant problem of keeping factory windows clean is expensive but must be done to provide adequate light and good working conditions. Windows not properly cleaned of course step up the cost of

artificial illumination. Without frequent washings factory windows defeat their own purpose of light transmission and contribute to inefficiency, high operating costs, and lowered employee morale.



Regular maintenance crews are given much more time for other duties by the reduced time required to wipe off glass panels.

① INFREQUENT CLEANING

Glass block panels require only infrequent cleaning. It is estimated that the outside glass will require cleaning about half as often as standard sash.

② HARD GLASS SURFACES

The surface of Insulux glass block, due to the process by which it is manufactured, is extremely hard and non-porous. For this reason dust, dirt, and grease do not easily adhere.

③ RIB STRUCTURE

Blocks with smooth exterior faces naturally clean easily, as do those with exterior ribs which tend to make the block self-cleaning from the washing effect of rain.

④ QUICK CLEANING

Occasional wiping with a sponge or damp cloth over the panel as a unit is all that is required to clean glass block. There are no small panes separated by protruding metal to add to cleaning time.

Problem 3

HIGH PAINTING COSTS ELIMINATED

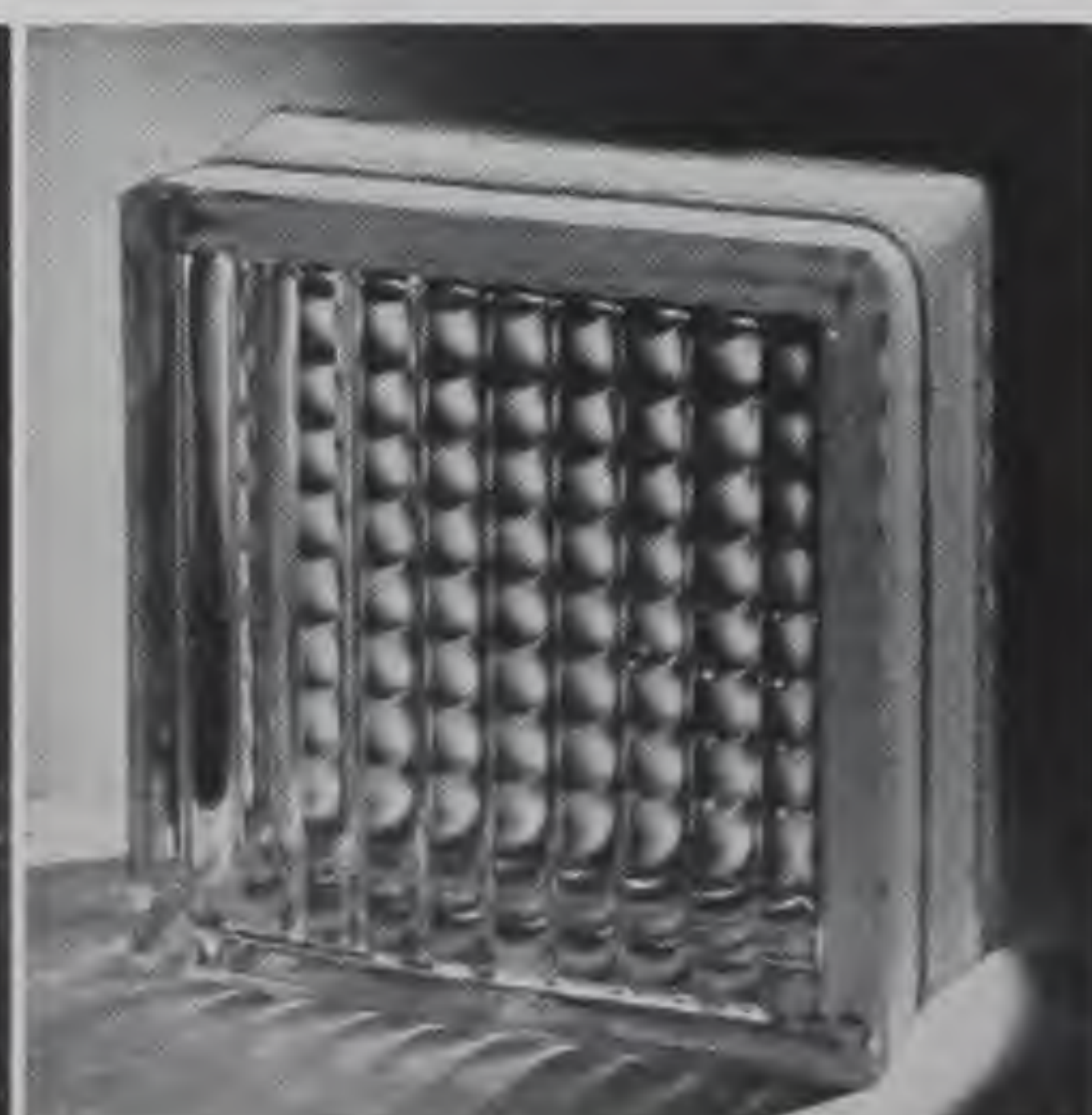
Because windows in factories represent a very large investment, frequent repainting of the metal areas is required in an effort to extend their life. The high cost involved in sash painting is well known to every maintenance engineer. Since glass block do not require painting of any kind, they make possible a 100 per cent saving of this maintenance cost.

SERIES AND SIZES

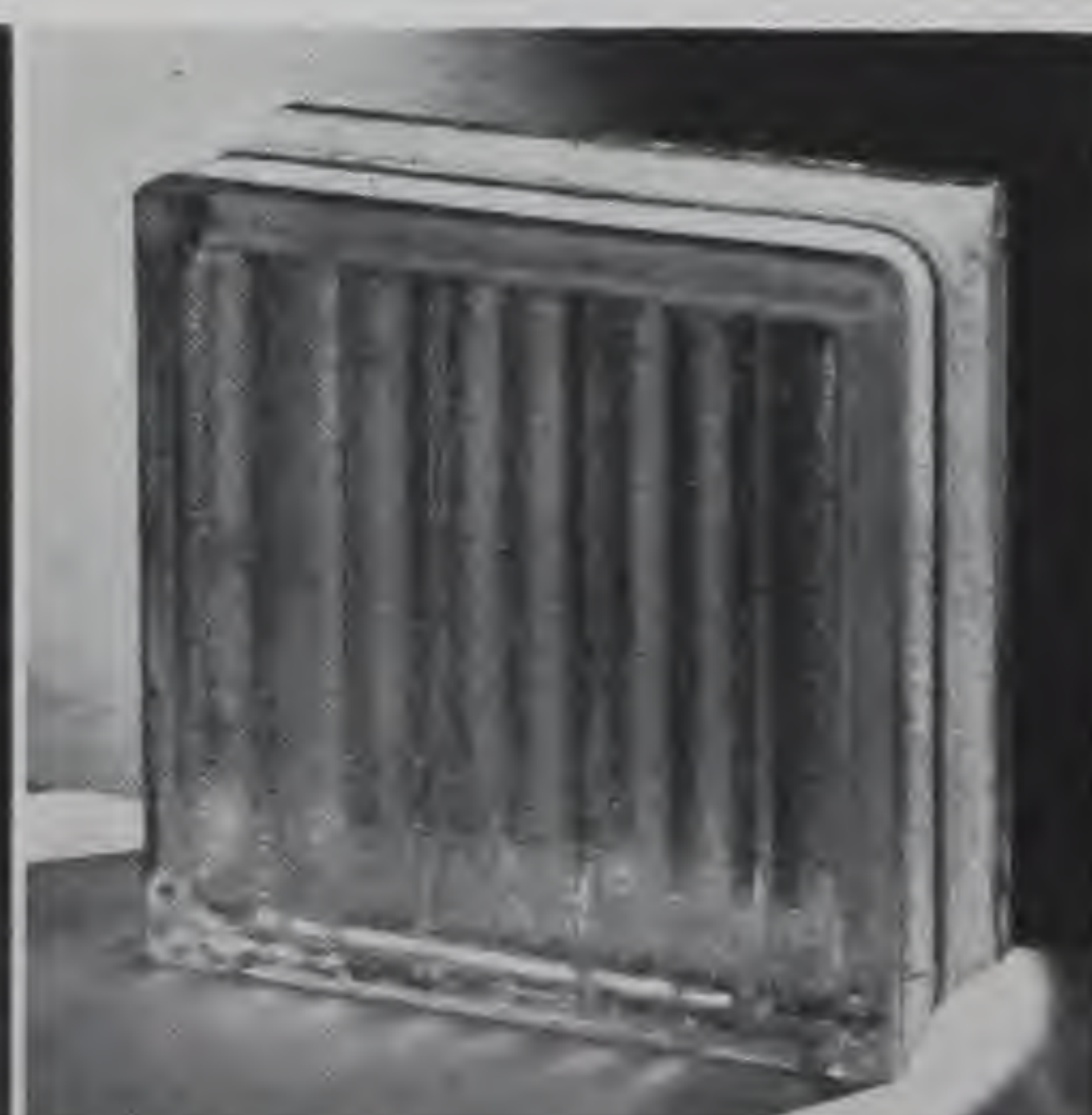
200—5 $\frac{3}{4}$ x5 $\frac{3}{4}$ x3 $\frac{7}{8}$	202	216	240	217	230
300—7 $\frac{3}{4}$ x7 $\frac{3}{4}$ x3 $\frac{7}{8}$		316	340	317	330
400—11 $\frac{3}{4}$ x11 $\frac{3}{4}$ x3 $\frac{7}{8}$		416	440	417	430



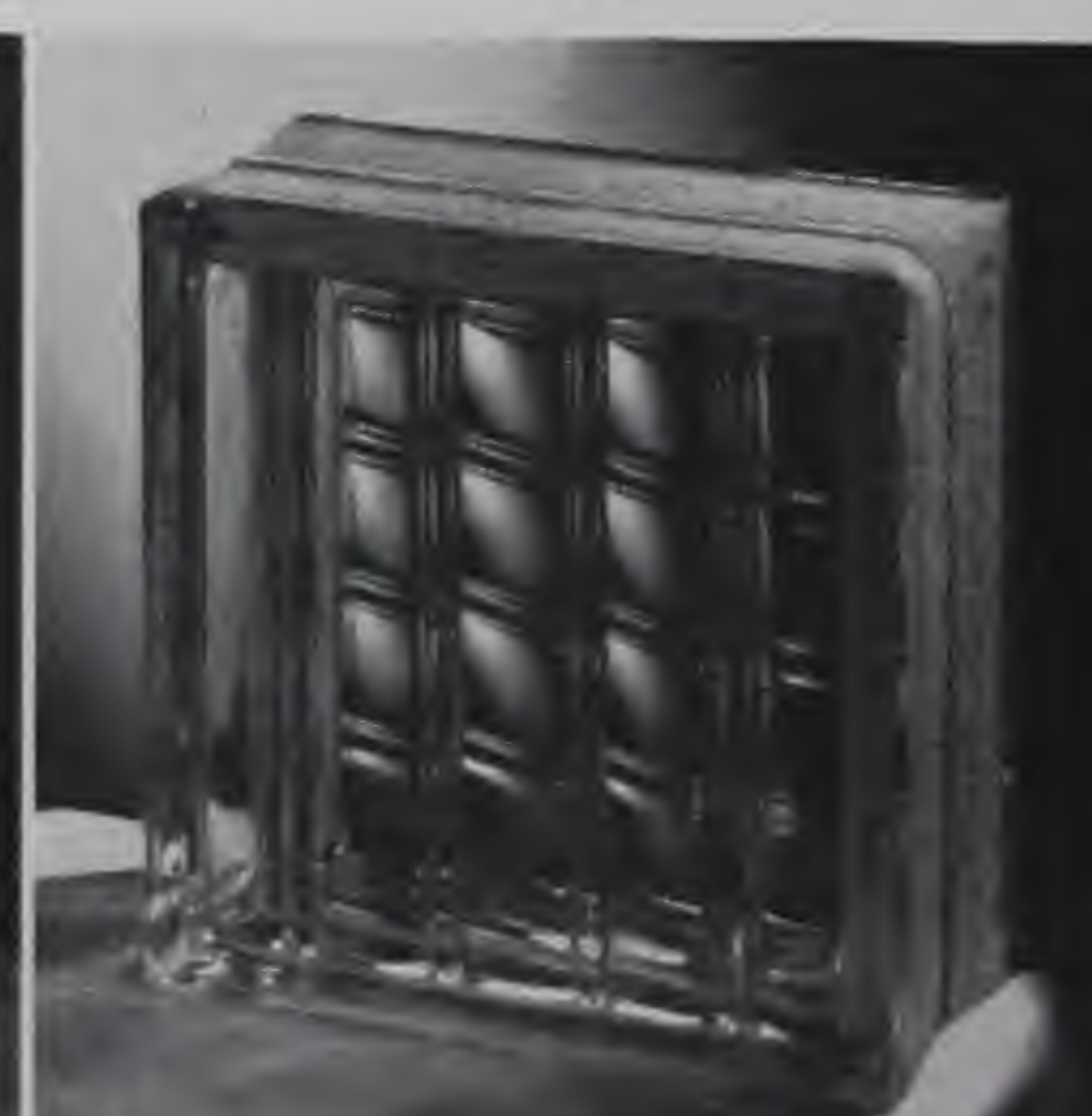
Design No. 2



Design No. 16



Design No. 40



Design No. 17



Design No. 30

These general purpose blocks are well adapted to both interior and exterior use in all types of building construction where good light diffusion and distribution are required.

The greater transparency of these decorative blocks emphasize the sparkle and brilliance of glass.

ANSWER

INSULUX

Problem 4

INFILTRATION OF DUST AND DIRT

Many problems in machinery maintenance, temperature, humidity control, and heating cost are all directly traceable to the infiltration of air, dust, and dirt in factories. Such infiltration is eliminated

with the use of properly installed Insulux Glass Block panels because there are no partially sealed joints or cracks to admit objectionable air-borne dust or dirt particles.



① GLASS BLOCK PANELS ARE AIR-TIGHT

Because the standard method of erecting Insulux is to lay it up in mortar with calked expansion joints at jambs and heads of panels, air infiltration is reduced to a minimum. This reduction aids in lowering heat loss and in maintaining desirable interior conditions of temperature and humidity.

② PROTECTION FOR MACHINERY

Industrial experience with Insulux glass block has proved that even delicate machinery may be placed next to exterior panels without damage because the panels are sealed against drafts and dirt and tend to prevent sharp temperature differences.

③ REDUCED JANITOR SERVICE

Because glass block panels keep out the dust and dirt commonly found throughout industrial areas, they contribute materially to the reduction of cleaning time required by maintenance crews.

MORE EMPHASIS IS GIVEN MAINTENANCE PROBLEMS

Management has always recognized the necessity of keeping maintenance costs low, but at present even more attention is being given to this problem. Because of today's unusual conditions, management has been advised to investigate fully the use of new and improved material to save man-power, maintain efficiency and effect economies to offset increased operating costs. Insulux Glass Block meets those requirements.

350

351

216-C
316-C

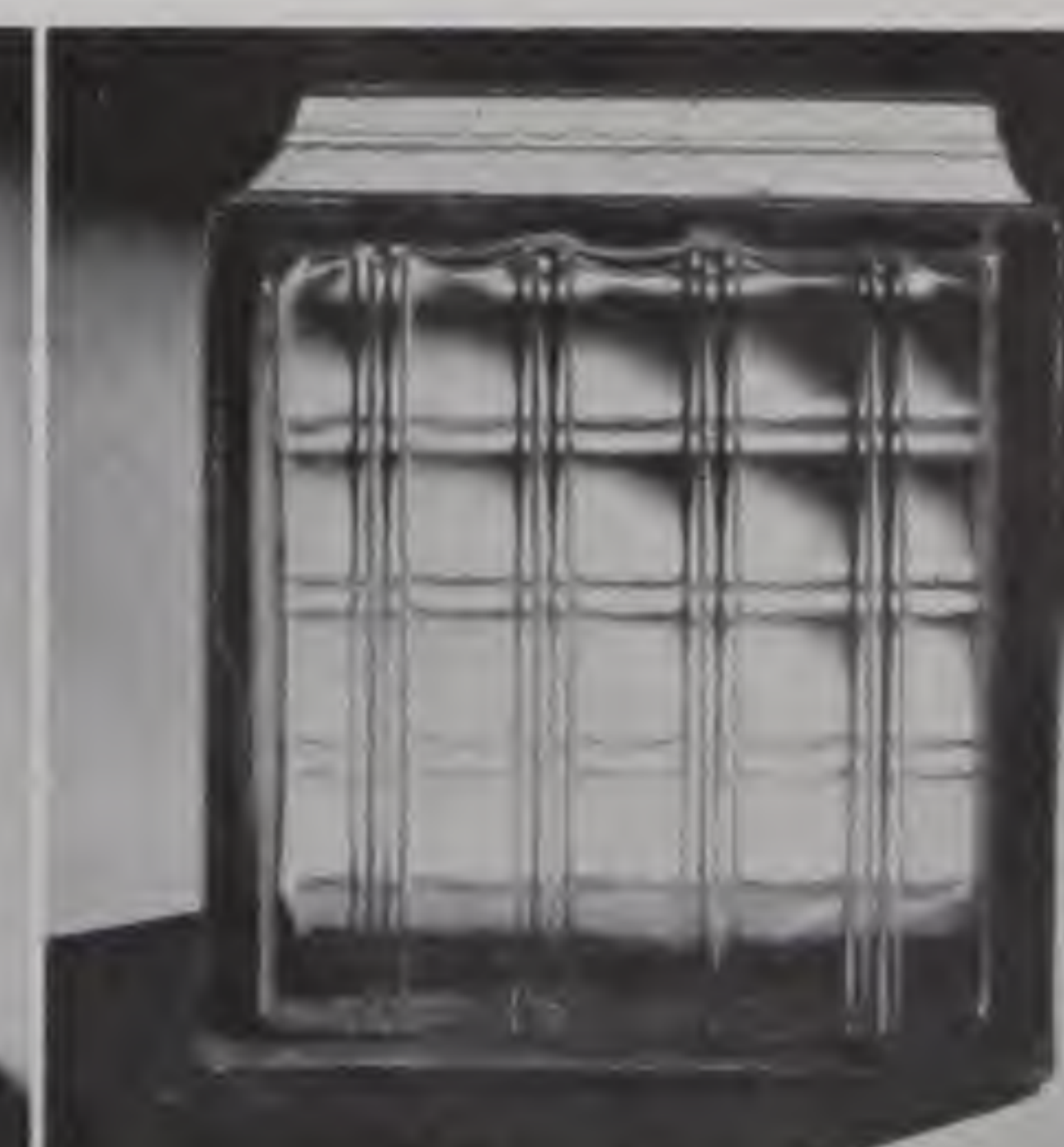
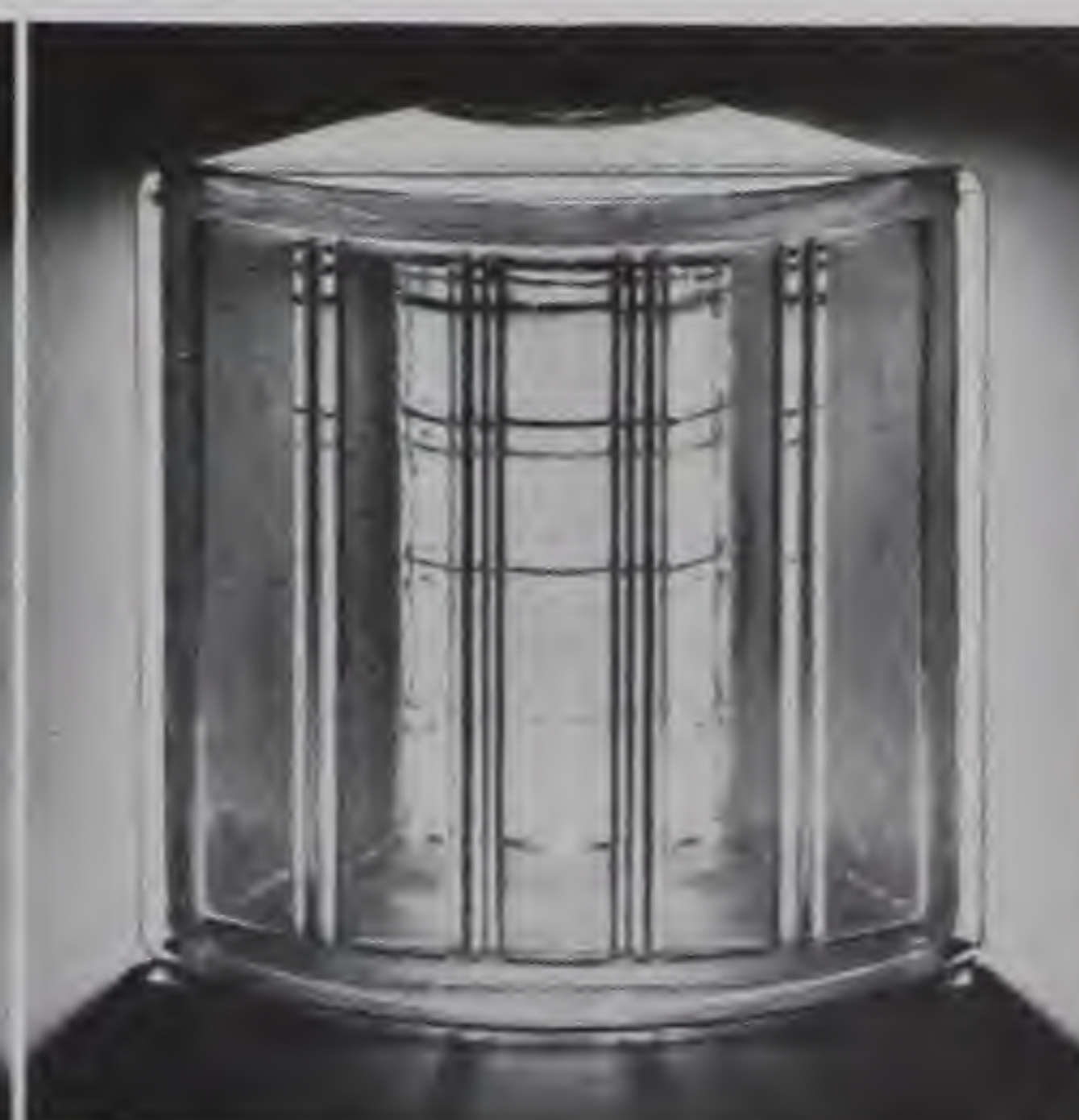
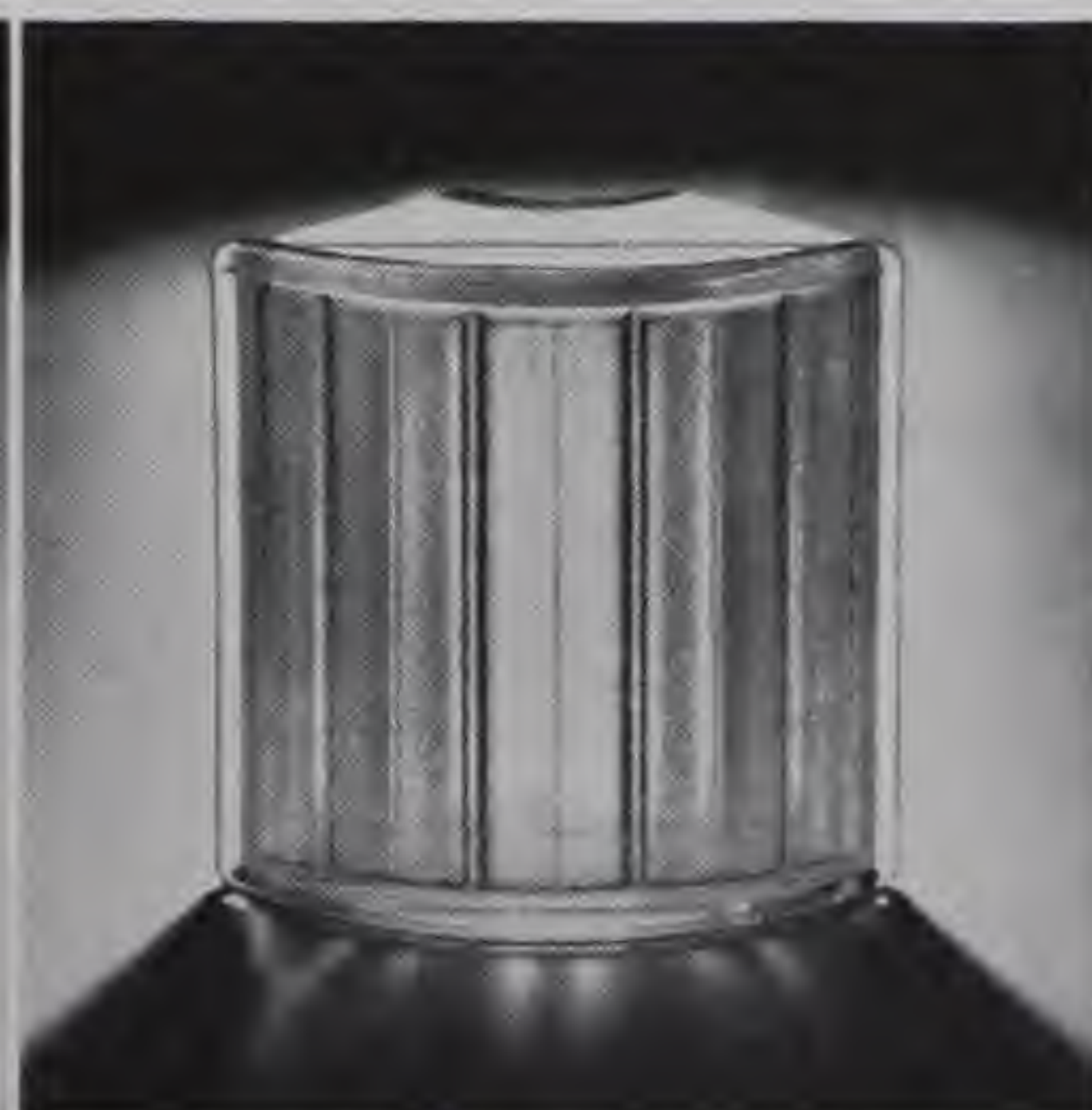
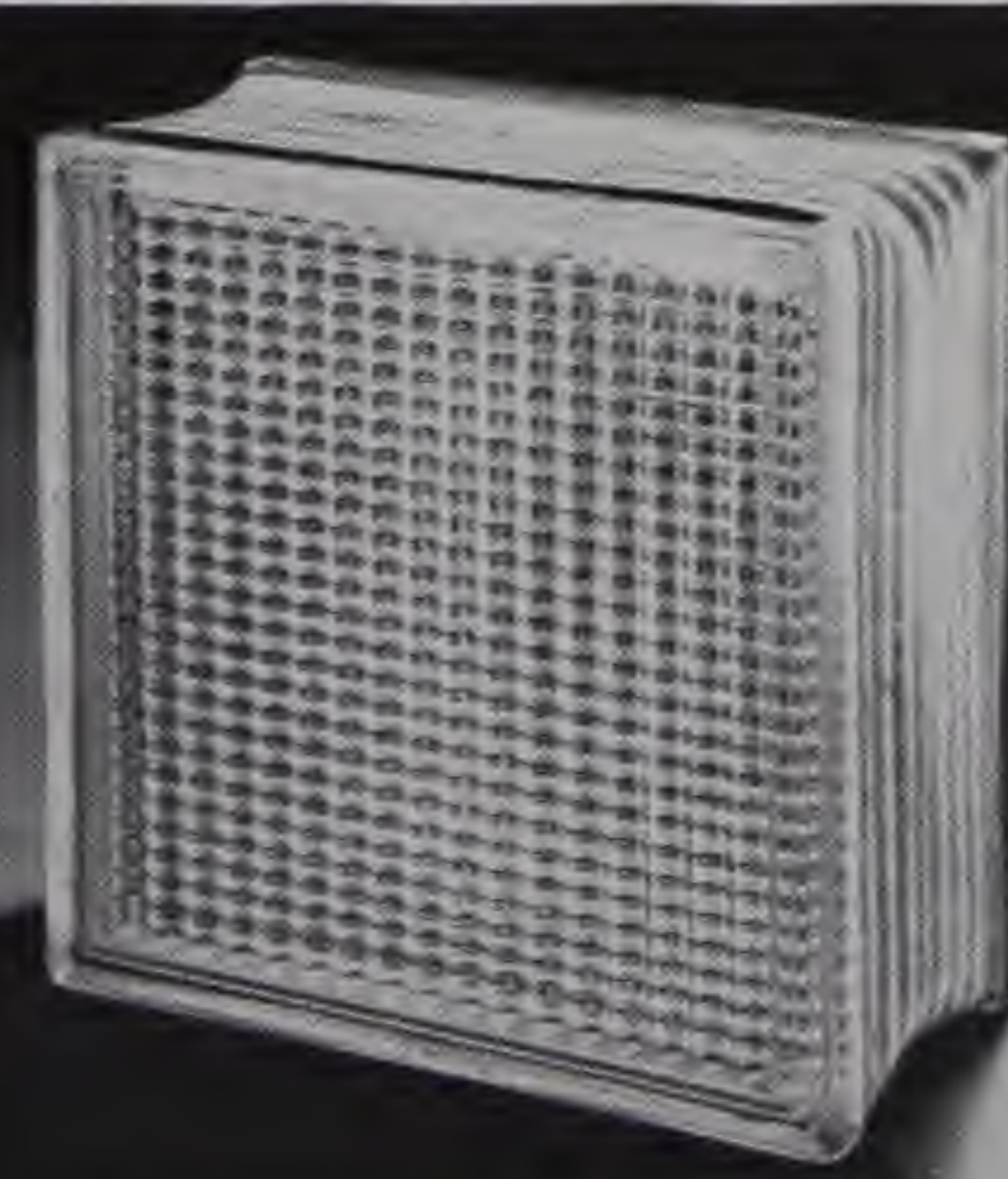
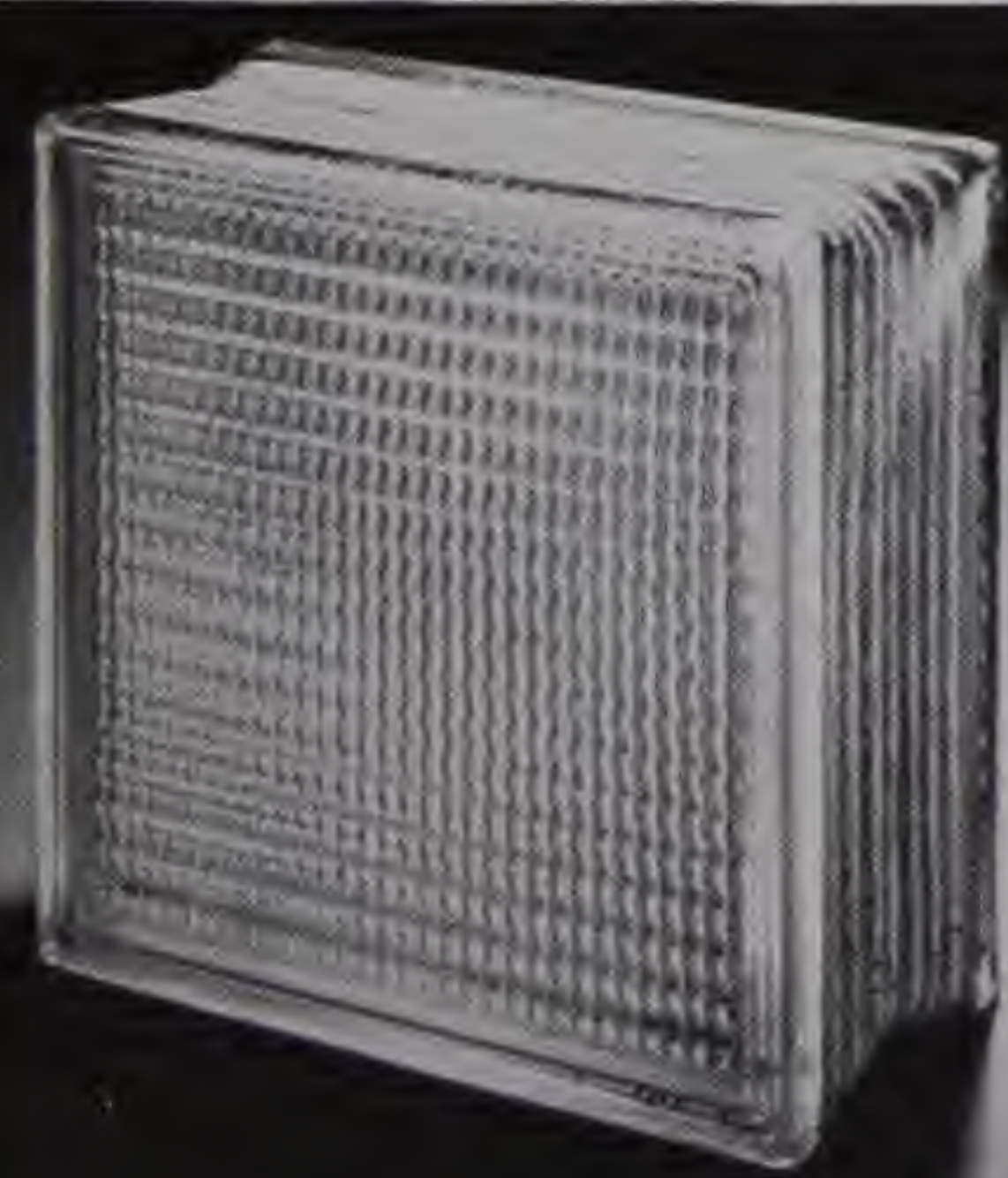
240-C
340-C

217-C
317-C

230-C
330-C

317-R

340-R



Design No. 50

Design No. 51

Design No. 40—Corner

Design No. 17—Corner

Design No. 17—Radial

These are functional block—known as the No. 350 no-glare block and the No. 351 light directional block.

Flexibility in architectural design with Insulux is achieved with these corner and radial blocks to supplement the regular square blocks and conform to them in design and size.

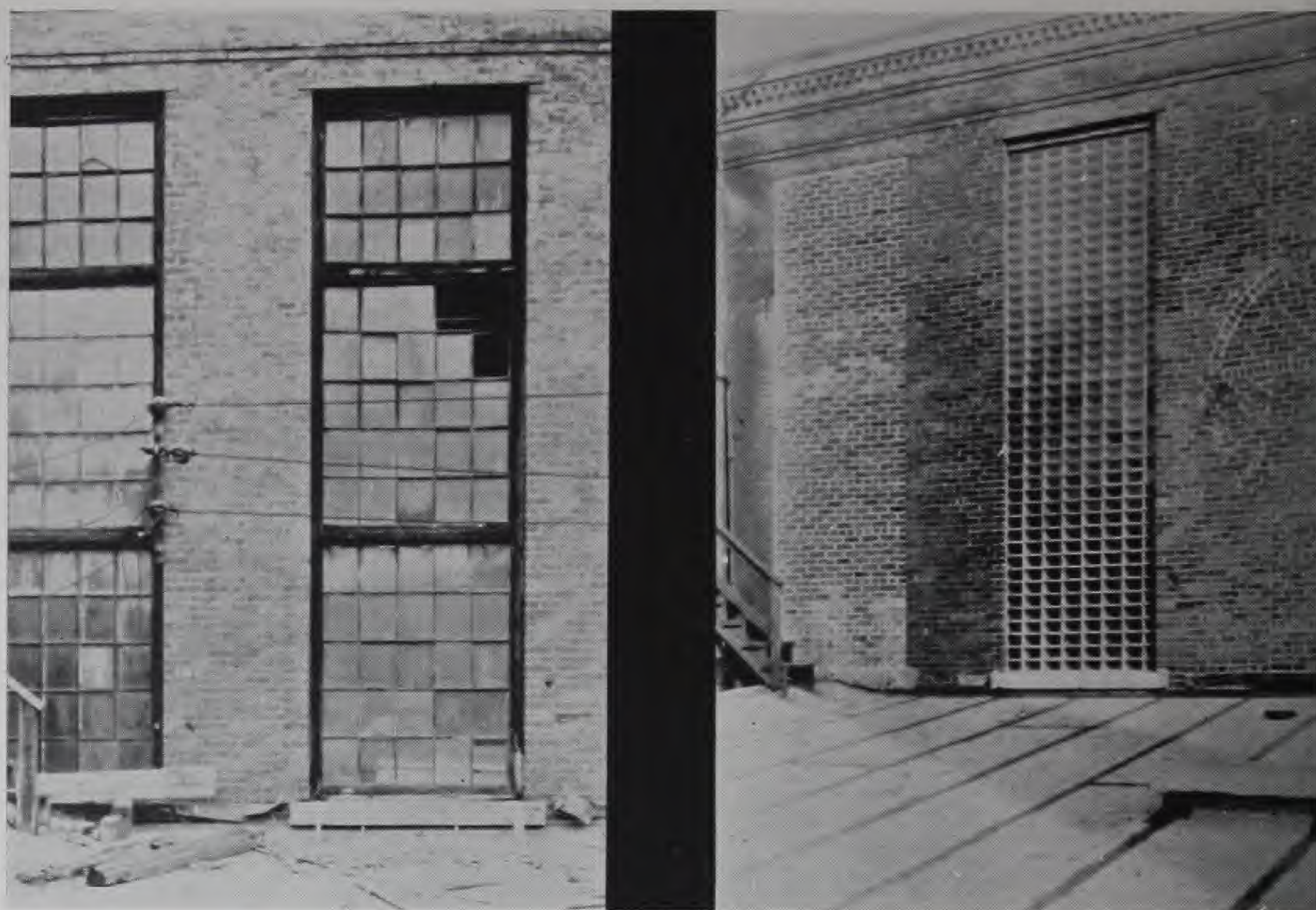
INSTALL A TEST PANEL IN YOUR PLANT

Many large industrial organizations have been completely and thoroughly convinced of the advantages of Insulux by test panels which they have installed and observed over a period of time in order to solve their own particular problems.

A test panel offers the engineers and owners an opportunity to inspect actual construction methods and to learn first hand how glass block will meet conditions peculiar to the specific operations involved. Information which we have gathered from thousands of installations can actually be verified in this way.

Large progressive sash replacement programs, as well as complete new structures with Insulux, have resulted from the knowledge gained through a small beginning with a single test panel.

The cost of a test panel is small. An inquiry involves no obligation whatsoever and one comparative test in a single opening can give you exactly the information on glass block you desire.



The desirability of Insulux glass block test panels is given visual proof in the above pictures which emphasize the neatness and strength of glass block as a dependable light transmitting building material—not subject to the deterioration and unsightliness possible with ordinary single glazed sash windows, or, the frequent attention necessary to keep windows in a satisfactory condition.

PANELS MAY BE INSTALLED BY YOUR OWN CREW

Insulux glass block panels may be installed one at a time by your own maintenance crew. Such installations will not work an undue hardship on your maintenance budget and do not require any capital investment. A test panel will convince you that most light-transmitting areas in your factory should be of glass block. Insulux Glass Block can be purchased through your local dealer and is stocked in different sizes and designs to permit prompt delivery service in any desired quantity. The Insulux dealer in your community will be glad to supply helpful information at any time relative to actual installation. His interest in the product and experience with it on the job qualifies his giving practical advice in the use of Insulux Block.

YOU CAN REDUCE YOUR MAINTENANCE COSTS

Rather than speak in generalities, we would be pleased to have our building department representative advise you on ways of lowering the cost of maintenance within your own plant. Information given will be the result of laboratory research in our own factories and several outstanding American universities, plus actual experience with glass blocks in the field. Suggestions given will in no way create an obligation on your part and will likely prove helpful and interesting regarding the things that might be done (without entailing much expense) to better working conditions and facilitate proper maintenance throughout the plant. Please write the Insulux Products Division, Owens-Illinois Glass Company, Toledo, Ohio.

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INSULUX GLASS BLOCK
OWENS-ILLINOIS GLASS COMPANY